

FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NUMBER NIHA-0278
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (if known see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/578385</div>
INTERNATIONAL APPLICATION NO. PCT/US2004/035831	INTERNATIONAL FILING DATE 27 October 2004 (27.10.2004)	PRIORITY DATE CLAIMED 05 November 2003 (05.11.2003)
TITLE OF INVENTION <b>CARBOHYDRATE ANTIGEN-NANOPARTICLE CONJUGATES AND USES THEREOF AS ANTIMETASTATIC AGENTS IN TREATING CANCER</b>		
APPLICANT(S) FOR DO/EO/US <b>Joseph J. BARCHI, Jr.; Kate RITTENHOUSE-OLSON and Sergei SVAROVSKY</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<div style="display: flex;"> <div style="flex: 1;"> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).               <div style="margin-left: 20px;">                 a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).                  b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.                  c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).               </div> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).               <div style="margin-left: 20px;">                 a. <input type="checkbox"/> is attached hereto.                  b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).               </div> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))               <div style="margin-left: 20px;">                 a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).                  b. <input type="checkbox"/> have been communicated by the International Bureau.                  c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.                  d. <input checked="" type="checkbox"/> have not been made and will not be made.               </div> </li> <li>8. <input type="checkbox"/> An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4). (<b>unexecuted</b>)</li> <li>10. <input type="checkbox"/> An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> </div> <div style="flex: 1; padding-left: 10px;"> <p><b>Items 11. to 20. below concern other document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.182-1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information:               <div style="margin-left: 20px;">                 - a copy of form PCT/IB/308;                  - a copy of the International Search Report;                  - a copy of the Written Opinion;                  - a copy of the International Preliminary Report on Patentability, including amended claims under Article 34;                  - a return postcard.               </div> </li> </ol> </div> </div>		
<div style="font-size: 1.2em; font-weight: bold;">EV482612025US</div>		
EXPRESS MAIL Mailing Label No. EV 482612025 US Date of Deposit: May 4, 2006		

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U.S. APPLICATION NO. <b>10/378385</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US2004/035831</b>		ATTORNEY DOCKET NUMBER <b>NIHA-0278</b>	
The following fees are submitted:					
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))		<b>\$300</b>		<b>\$300.00</b>	
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))				<b>\$</b>	
If written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					
		<b>\$0.00</b>		<b>\$200.00</b>	
All other situations		<b>\$200</b>			
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))					
If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)		<b>\$0</b>			
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority		<b>\$100</b>		<b>\$400.00</b>	
International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB		<b>\$400</b>			
All other situations		<b>\$500</b>			
<b>TOTAL of 21, 22 and 23 =</b>				<b>\$900.00</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing filed in electronic medium) (37 CFR 1.492(j)). The fee is <b>\$250</b> for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
<b>69- 100 =</b>	<b>0/50=</b>		<b>X \$250</b>	<b>\$0</b>	
Surcharge of <b>\$130.00</b> for furnishing any of the search fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				<b>\$</b>	
Claims	Number Filed	Number Extra	Rate		
Total claims	<b>73- 20 =</b>	<b>53</b>	<b>X \$50</b>	<b>\$2,650.00</b>	
Independent Claims	<b>3- 3 =</b>	<b>0</b>	<b>X \$200</b>	<b>\$</b>	
Multiple dependent claims(s) (if applicable)			<b>+ \$360</b>	<b>\$</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$3,550.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<b>\$</b>	
<b>SUBTOTAL =</b>				<b>\$3,550.00</b>	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				<b>\$</b>	
<b>TOTAL NATIONAL FEE =</b>				<b>\$3,550.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +					
<b>TOTAL FEES ENCLOSED =</b>				<b>\$3,550.00</b>	
				<b>Amount to be:</b>	<b>\$</b>
				<b>refunded</b>	
				<b>Amount to be</b>	<b>\$</b>
				<b>charged</b>	

10/578385

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. Department of Commerce

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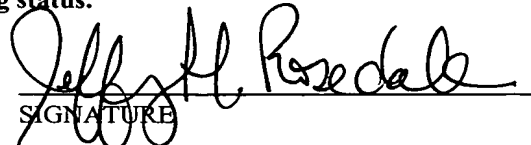
AP20 Rec'd PCT/PTO 04 MAY 2006

- a. ☒ A check in the amount of \$3,550.00 to cover the above fee is enclosed.
- b. ☐ Please charge my Deposit Account No. 23-3050 in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

**John W. Caldwell**  
Woodcock Washburn LLP  
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Philadelphia, PA 19103  
(215) 568-3100

  
SIGNATURE

**Jeffrey H. Rosedale**  
NAME

**46,018**  
REGISTRATION NUMBER